Appl. No.

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## **AMENDMENTS TO THE CLAIMS**

Please add Claims 27-33.

Please amend Claim 15.

1-14. (Canceled).

15. (Currently Amended) An installation for etching a substrate by simultaneous exposure to two etching gases, the two etching gases forming a corrosive mixture, the installation, comprising:

an etching chamber for a substrate, the etching chamber having an opening;

a piping system coupled to the opening and providing for at least a first fluid feed and a second fluid feed, wherein the first fluid feed is connected at a source end to a source of a first etching gas, wherein the second fluid feed is connected at a source end to a source of a second etching gas, and wherein the first and second fluid feeds are configured to separately provide the first and second etching gases to the etching chamber via the piping system;

an auxiliary chamber positioned within the piping system and having an inlet and an outlet, wherein the inlet includes a first controllable shut-off valve and is in communication with the first fluid feed, wherein the outlet includes a second controllable shut-off valve and is in communication with the etching chamber, and wherein said first and second shut-off valves are configured to be open only one at a time; and

a third controllable shut-off valve positioned in the piping system in the second fluid feed, wherein the third shut-off valve and the second shut-off valve are configured to be open only one at a time,

wherein the auxiliary chamber and the piping system upstream of the auxiliary chamber are each formed of different materials.

- 16. (Previously Presented) The installation of Claim 15, wherein the piping system includes a bypass line for bypassing said auxiliary chamber.
- 17. (Previously Presented) The installation of Claim 15, wherein said etching chamber is connected to a vacuum pump.
- 18. (Previously Presented) The installation of Claim 15, wherein the piping system includes a valve coupled to the second fluid feed.

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19. (Previously Presented) The installation of Claim 15, wherein said etching chamber is of a plastic material and is configured to withstand a reduced pressure in said etching chamber.

- 20. (Previously Presented) The installation of Claim 19, wherein said plastic material comprises polyvinylidene fluoride.
- 21. (Previously Presented) The installation of Claim 15, wherein the first etching gas comprises hydrogen fluoride.
- 22. (Previously Presented) The installation of Claim 21, wherein the second etching gas is a catalyst for hydrogen fluoride etching.
- 23. (Previously Presented) The installation of Claim 22, wherein the second etching gas is selected from the group consisting of acetic acid, formic acid and water.
- 24. (Previously Presented) The installation of Claim 23, wherein the second etching gas comprises acetic acid.
- 25. (New) The installation of Claim 15, wherein the auxiliary chamber is formed of a material having higher corrosion resistance to a mixture of the first and the second etching gases than an other material forming the piping system.
- 26. (New) The installation of Claim 15, wherein the auxiliary chamber is formed of plastic.
- 27. (New) The installation of Claim 26, wherein the piping system upstream of the auxiliary chamber is formed of stainless steel.
  - 28. (New) A system for etching a substrate, comprising: an etching chamber for the substrate;

a piping system in fluid communication with the etching chamber and having at least a first fluid feed and a second fluid feed, wherein the first fluid feed is connected at a source end to a source of a first etching gas, wherein the second fluid feed is connected at a source end to a source of a second etching gas;

an auxiliary chamber positioned within the piping system and having an inlet and an outlet, wherein the inlet includes a first controllable shut-off valve and is in gas communication with the first fluid feed and the outlet includes a second controllable shutoff valve and is in gas communication with the etching chamber; Appl. No.

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a third controllable shut-off valve positioned in the piping system in the second fluid feed; and

means for preventing diffusion of the second etching gas through the inlet of the auxiliary chamber by opening the first and second shut-off valves only one at a time and by opening the second and the third shut-off valves only one at a time.

- 29. (New) The system of Claim 28, wherein a material forming a part of the piping system from the auxiliary chamber to the etching chamber has a higher resistance to corrosion by a mixture of the first and the second etching gases than an other material forming another part of the piping system upstream of the auxiliary chamber.
- 30. (New) The system of Claim 29, wherein the material forming a part of the piping system from the auxiliary chamber to the etching chamber is a plastic material.
- 31. (New) The system of Claim 30, wherein the other material forming another part of the piping system upstream of the auxiliary chamber a stainless steel material.
- 32. (New) The system of Claim 28, wherein the first etching gas comprises hydrogen fluoride.
- 33. (New) The system of Claim 32, wherein the second etching gas is selected from the group consisting of acetic acid, formic acid and water.